AiM User Guide

Kit for EVO4, Solo and SoloDL on Ducati 899,1199 Panigale

Release 1.00

PANIGALE

KIT

1 Models and years

This user guide explains how to install AiM Solo and SoloDL on Ducati Panigale bikes and how to connect EVO4 and SoloDL to the bike Engine Control Unit (ECU). Supported models and years are:

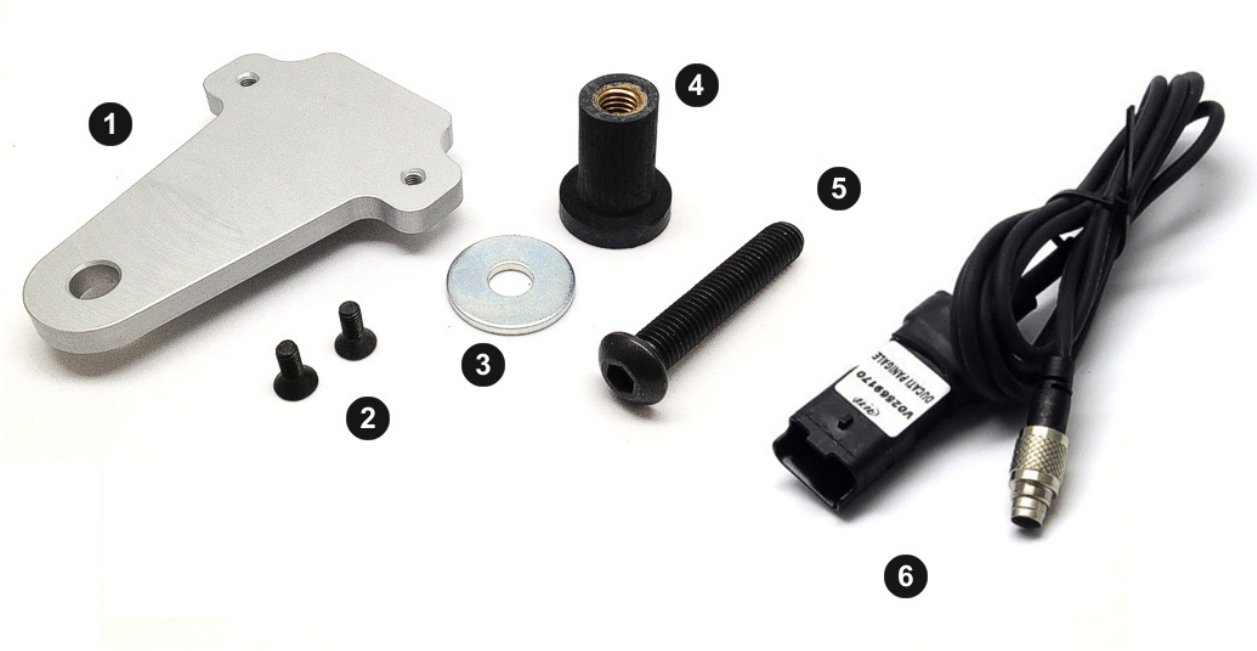
- 899 Panigale from 2013
- 1199 Panigale from 2012
- 1199 Panigale from 2012
- 1199 Panigale S from 2012
- 1199 Panigale Tricolore from 2012

2 Solo/SoloDL kit and EVO4 ECU connection cable

AiM developped an installation kit with bracket and ECU interface cable for Solo/SoloDL and an ECU interface cable for EVO4.

2.1
Kit and bracket for Solo/SoloDL on Ducati Panigale

Solo/SoloDL installation kit is shown here below; part number is: **V02569170CSP**.



The kit includes:

- 1 bracket (**1**)
- 2 4x10 Allen screws with countersunk head (**2**)
- 1 washer(**3**)
- 1 rubber distance piece (**4**)
- 1 8x45 pan head Allen screw (**5**)
- 1 AiM ECU interface cable for Ducati Panigale (**6**)

AiM cable (**6**) and bracket (**1**) can also be bought separately as spare parts.

- SoloDL cable for Ducati Panigale: **V02569170**
- Solo/SoloDL bracket for Ducati Panigale: **X46KSTSDP**

2.2
AiM cable for EVO4 on Ducati Panigale

AiM cable for EVO4 on Ducati Panigale is shown below; its part number is: **V02563150**.

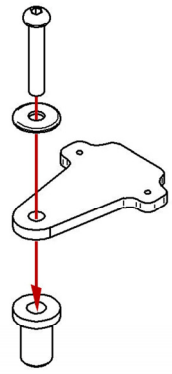
3
Installation and connection

Here you find the instructions to install Solo and SoloDL on Ducati Panigale and to connect EVO4 and SoloDL to the bike ECU. EVO4 cable length allows installation of the logger under the bike seat.

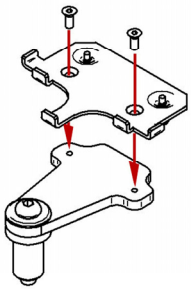
3.1
Installation of Solo and SoloDL

To install Solo/SoloDL on your Ducati bike:

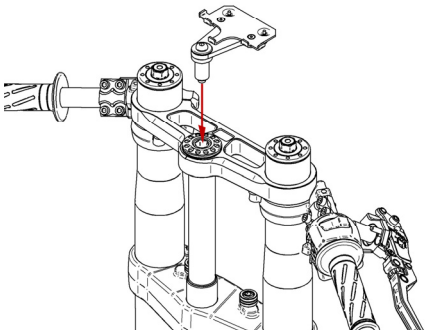
Place the washer and the rubber distance piece in line with Panigale bracket hole and insert M8 screw tightening all pieces.



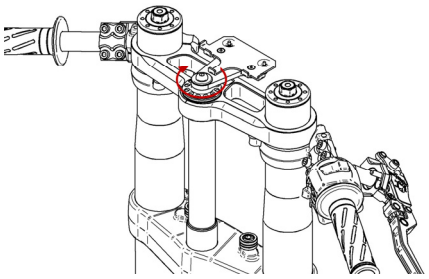
Fix Solo bracket to Panigale one using the two countersunk screws you find in the kit.



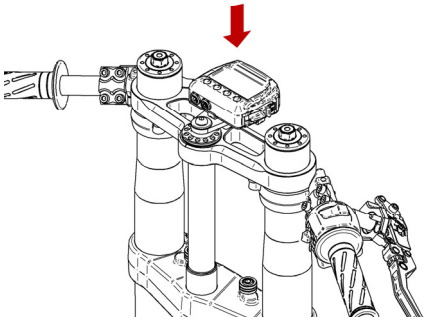
Insert the assembled brackets in the handle bar hole.



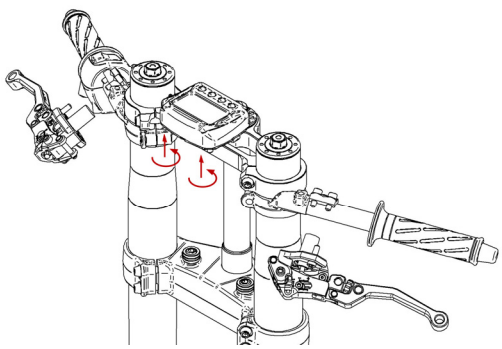
Tighten the M8 screw and the distance piece until the assembled brackets about the bike fork.



Hook Solo to its bracket.



Tighten Solo bracket screws.

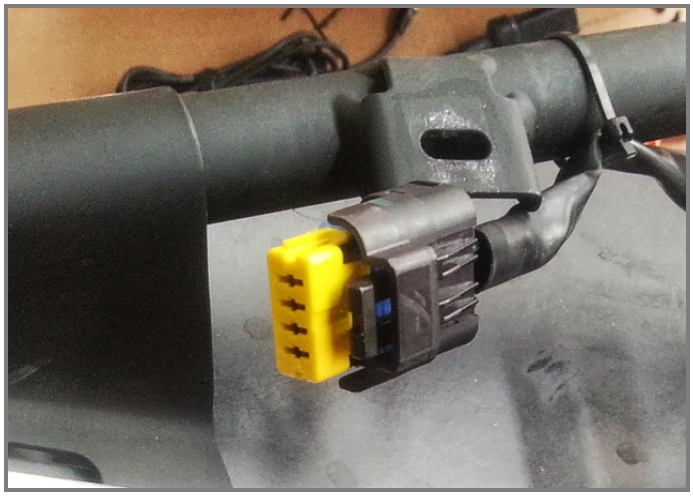


3.2
Connection of SoloDL and EVO4 to the bike ECU

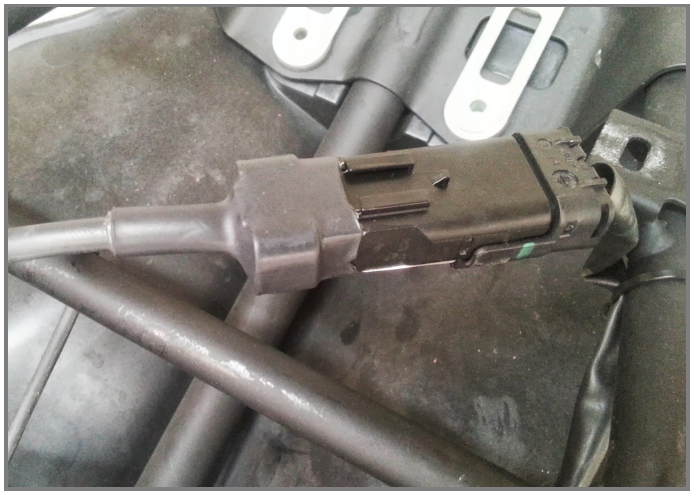
To connect EVO4 and SoloDL to the ECU of the bike use the connector you find under the passenger seat.

Open the bike tail and remove the connector cup highlighted in the image here on the right.

Once the cup has been removed the connector appears as here on the right.



Connect AiM wiring to Ducati wiring as here on the right.

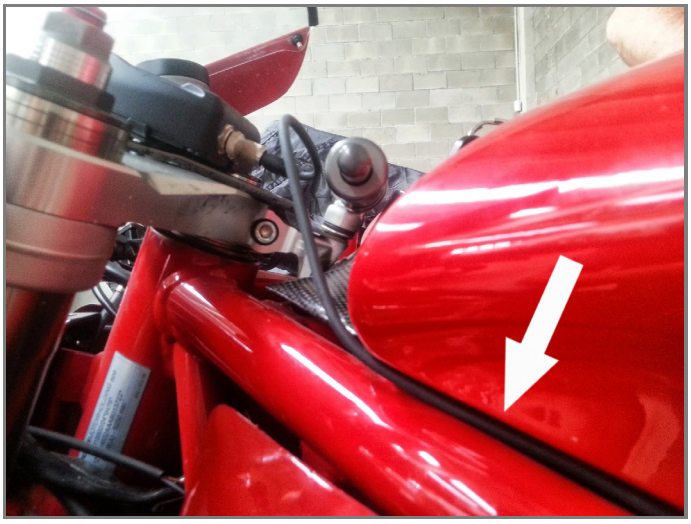


Take the cable to the logger as here on the right.

To reach SoloDL make the cable pass between the fuel tank and the bike frame.

Please avoid positions where the cable would be exposed to direct heat.

The image here on the right shows the cable reaching SoloDL.



Connect the cable to SoloDL as here on the right.

4
Configuring with Race Studio 2

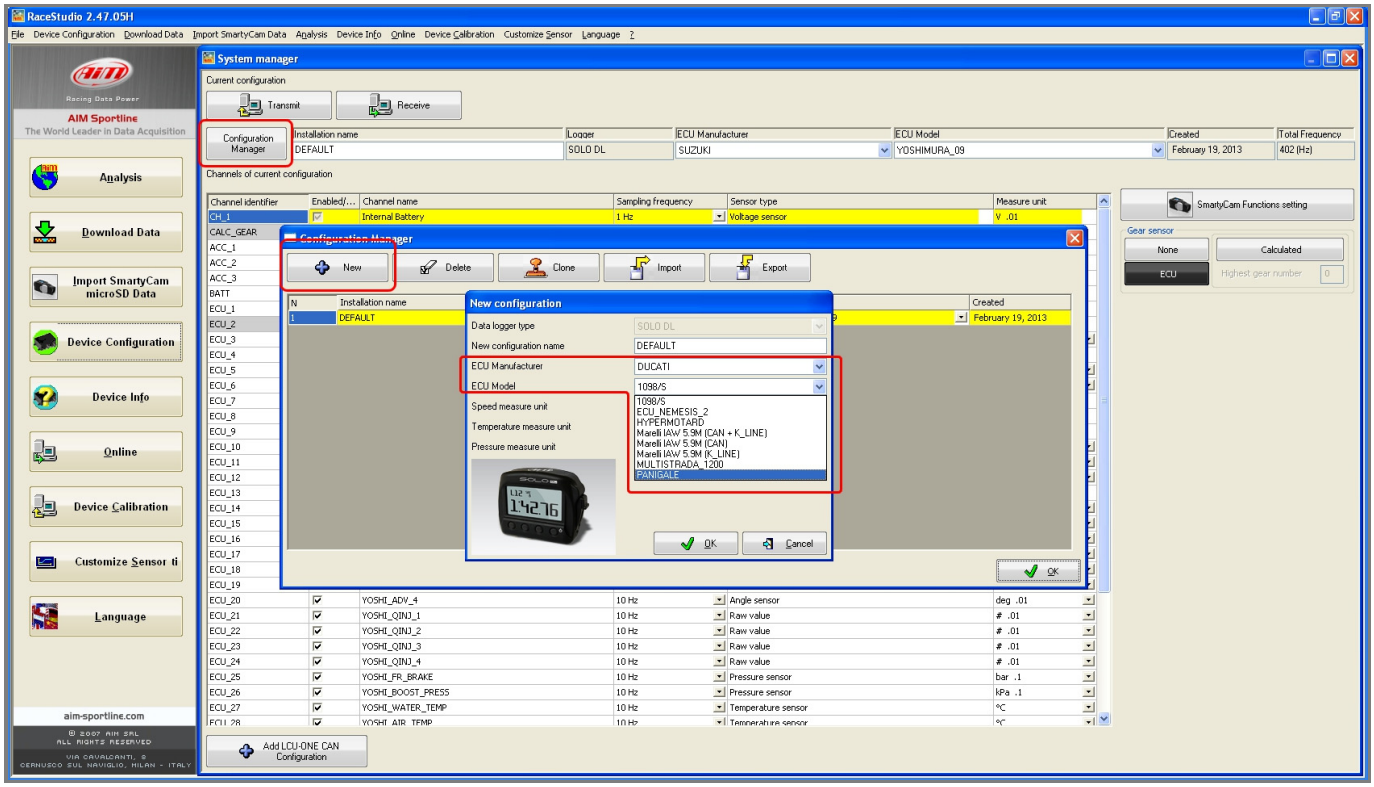
Before connecting EVO4/SoloDL to the ECU it is necessary to set it via Race Studio 2 software.

4.1
Configuring SoloDL

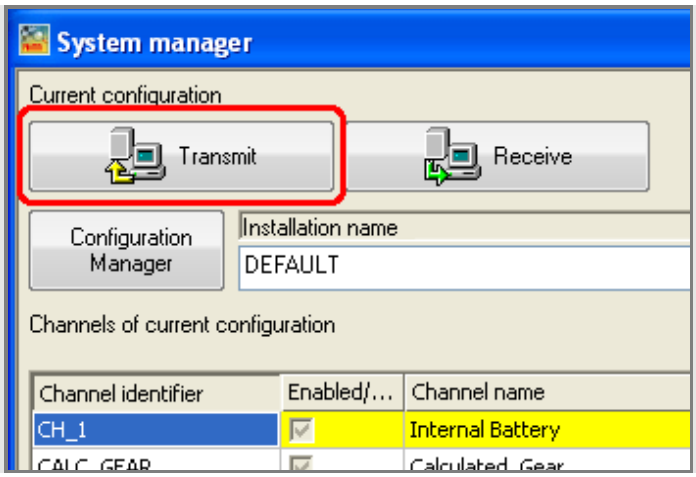
Run the software, press “Device Configuration” on the software left keyboard and select “SoloDL” in the panel that shows up as below.

The software shows SoloDL configuration page: press “Configuration Manager” and select the configuration you want to use or press “New” to create a new one. In this second case “New Configuration” panel appears. Select:

- ECU Manufacturer: “DUCATI”
- ECU model: "Panigale"

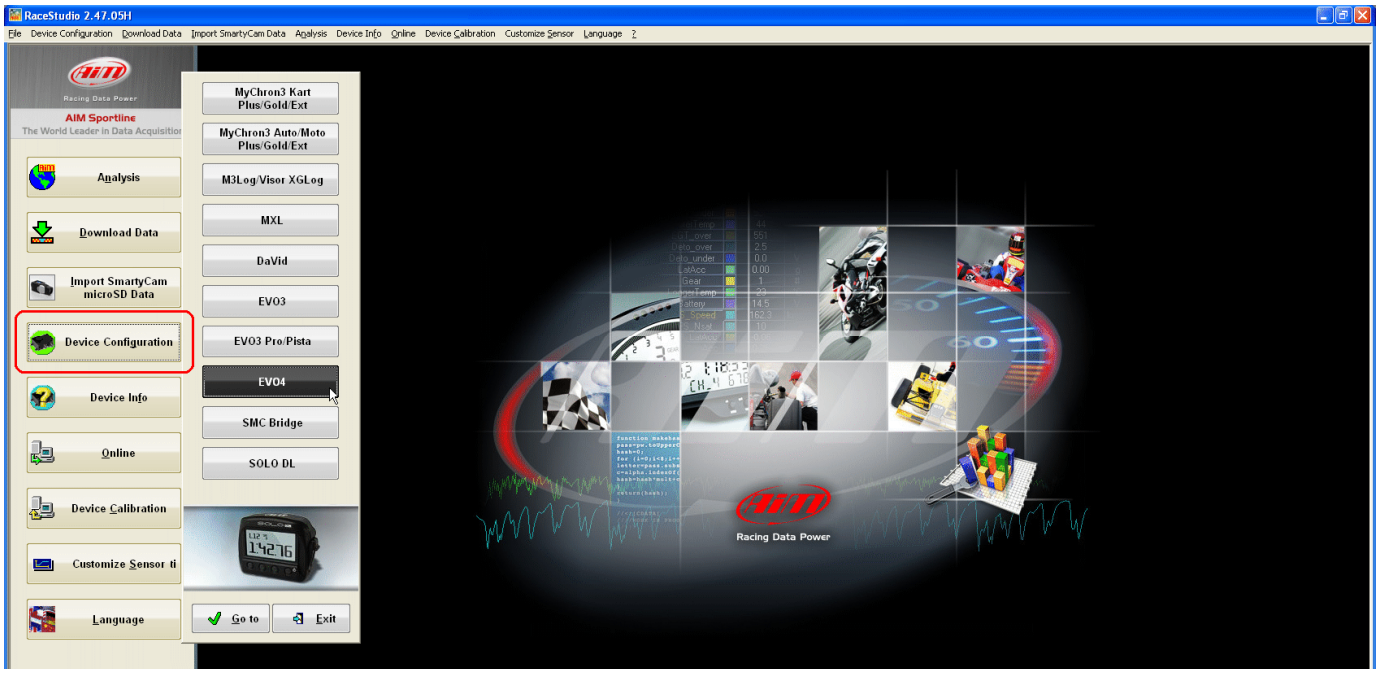


Confirm pressing “OK” in both panels and transmit the configuration to SoloDL pressing “Transmit” as shown below.



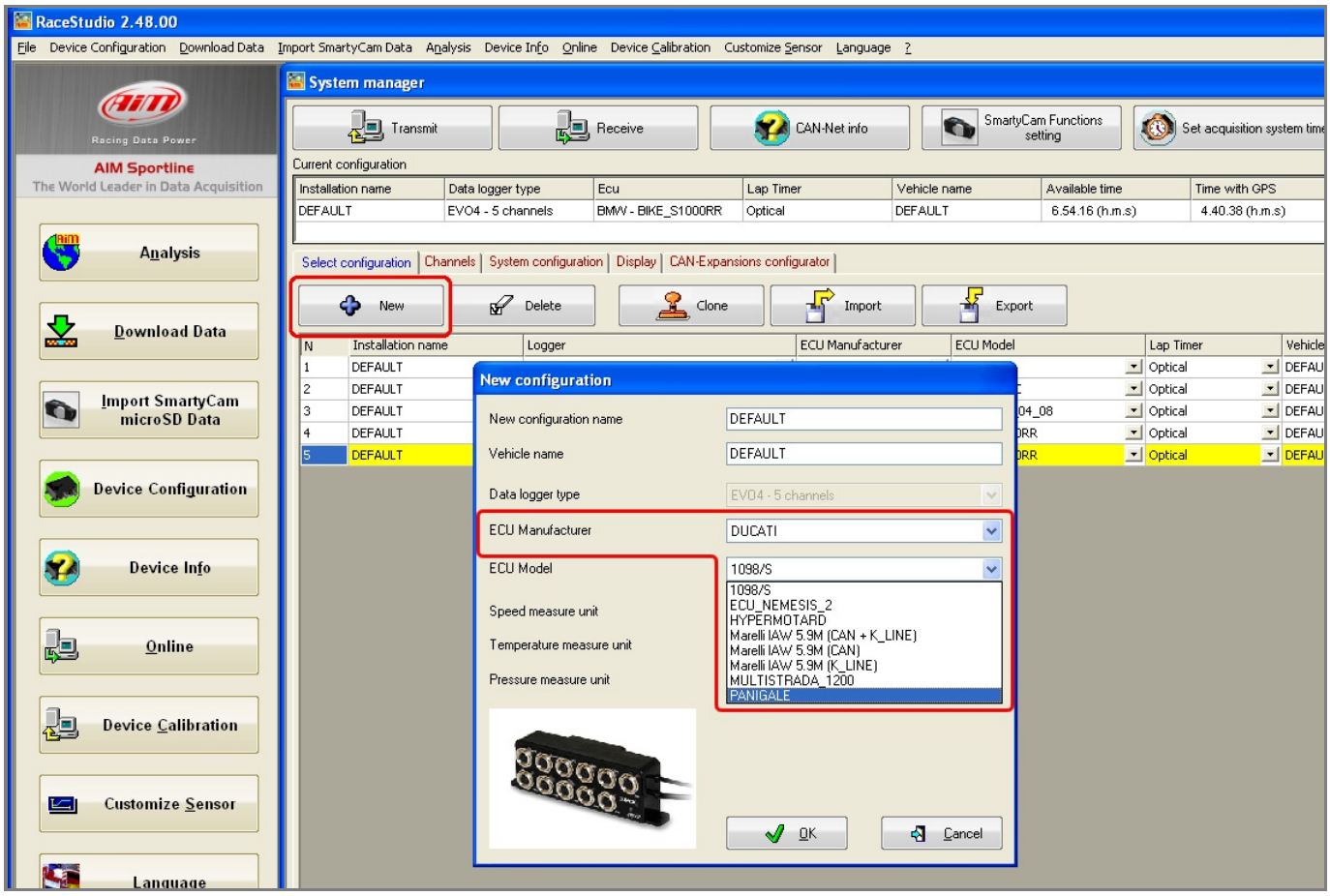
4.2 Configuring EVO4

Run the software, press “Device configuration” on the software left keyboard and select “EVO4” in the panel that shows up on the right as here below.

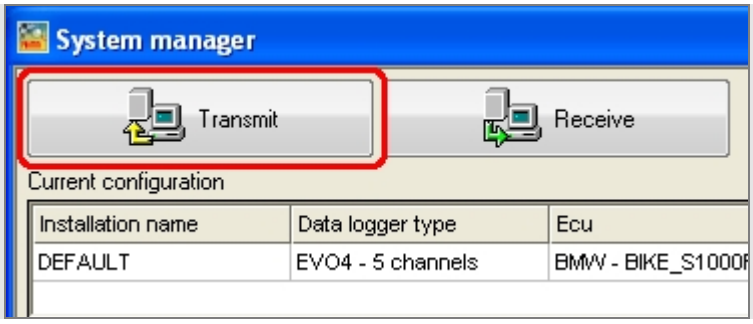


The software shows EVO4 configuration page: select the configuration you want to use or press “New” to create a new one. In this second case “New Configuration” panel appears: select:

- ECU Manufacturer: Ducati
- ECU Model: Panigale



Press “OK” and transmit the configuration to SoloDL pressing “Transmit” as shown below.



5
Ducati protocols

Channels received by SoloDL and EVO4 connected to Ducati Panigale protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_SPD_REAR	Rear wheel speed
ECU_3	ECU_TPS1_ENG	Throttle position cylinder 1
ECU_4	ECU_TPS2_ENG	Throttle position cylinder 2
ECU_5	ECU_TPS_HAND	Manual throttle
ECU_6	ECU_WATER_T	Engine coolant temperature
ECU_7	ECU_SPD_FRONT	Front wheel speed
ECU_8	ECU_INT_AIR_TEMP	Intake air temperature
ECU_9	ECU_BATTERY	Battery supply
ECU_10	ECU_BRAKE_SW	Brake switch
ECU_11	ECU_CLUTCH_SW	Clutch switch
ECU_12	ECU_GEAR	Engaged gear
ECU_13	ECU_NEUTRAL_SW	Neutral switch
ECU_14	ECU_OILP_SW	Oil pressure switch
ECU_15	ECU_TURN_RIGHT	Right turn indicator
ECU_16	ECU_TURN_LEFT	Left turn indicator
ECU_17	ECU_SW_ENG_MAP	Engine map selector
ECU_18	ECU_SW_BEAM	High beam switch
ECU_19	ECU_BARO	Barometric pressure
ECU_20	ECU_LAMB_H	Horizontal cylinder lambda value
ECU_21	ECU_LAMB_TMP_H	Horizontal cylinder lambda temperature
ECU_22	ECU_DIAG_H	Horizontal cylinder lambda diagnosis
ECU_23	ECU_LAMB_V	Vertical cylinder lambda value
ECU_24	ECU_LAMB_TEMP_V	Vertical cylinder lambda temperature

ECU_25	ECU_DIAG_V	Vertical cylinder lambda diagnosis
ECU_26	ECU_BRK_FRONT	Front brake pressure
ECU_27	ECU_BRK_REAR	Rear brake pressure
ECU_28	ECU_DTC_RDC	Ducati traction control intervention
ECU_29	ECU_DTC_PERC	Ducati traction control percentage